

AMENDMENT AND RESPONSE

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Serial No.: 10/655,829

Filing Date: September 5, 2003

Attorney Docket No. 125.082US01

Title: AUTOMATIC LAYOUT FILL GENERATOR

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**Amendments to the Specification:****Abstract of the Disclosure**

~~Methods of filling empty areas in a layout simulation. In one embodiment, a method of simulating an integrated circuit layout is disclosed. The method comprises automatically identifying empty areas in a layout that can be filled and generating fill patterns to fill the empty areas.~~

A method of dealing with empty areas in a circuit layout is provided. In particular, the method provides a way of automatically identifying the empty areas in a circuit layout simulation produced from a schematic diagram. The method also fills in the areas using a recursive partition algorithm such the device of layout will comply with design rule checking requirements.